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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/335,608	06/18/1999	TIMOTHY J. MOULSLEY	PHB-34-257	6666
24737 75	590 05/20/2004		EXAM	INER
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			HYUN, SOON D	
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BRIARCLIFF I	MANOR, NY 10510		ART UNIT	PAPER NUMBER
			2663	17
			DATE MAILED: 05/20/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/335,608	MOULSLEY, TIMC	MOULSLEY, TIMOTHY J.			
Office Action Summary	Examiner	Art Unit				
	Soon-Dong Hyun	2663				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a bly within the statutory minimum of thir will apply and will expire SIX (6) MON te, cause the application to become Al	reply be timely filed ty (30) days will be considered timely ITHS from the mailing date of this or BANDONED (35 U.S.C. § 133).	y. ommunication.			
Status						
1) Responsive to communication(s) filed on 02 f	March 2004.					
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.					
·— ··	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•					
4) Claim(s) 1,2,4-7,9-17 and 21 is/are pending in 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,4-7,9-17 and 21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	ewn from consideration. or election requirement. er. cepted or b) objected to e drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	FR 1.121(d).			
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action or form PT	ГО-152.			
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document * See the attached detailed Office action for a list 	nts have been received. nts have been received in A ority documents have beer au (PCT Rule 17.2(a)).	Application No received in this National	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413) (s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of 6) Other:	Informal Patent Application (PT0 ——·) -152)			

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DETAILED ACTION

1. Applicant's arguments with respect to claims 1, 2, 4-7, 9-17, and 21 have been considered but are most in view of the new ground(s) of rejection.

Claim Objections

2. Claim 9 is objected to because of the following informalities.

In claim 9, line 2, "jury" should be changed to -- during --.

In claim 4, line 2, "and" should be changed to -- the --.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear whether a base station (a first station) and a mobile station (a second station) have the same circuitry of FIG. 1. If the base station has the circuitry of FIG. 1, it is not clear whether the base station has the analogue speech input (12) and the speech coder (16) which converts the analogue speech signal into sampled digital speech data with reference to the specification page 4, line 14-26.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 2, 4, 6, 7, 9-13, 15-17, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hamalainen et al (U.S. Patent No. 6,477,176) in view of Feldman (U.S. Patent No. 6,393,000).

Regarding claims 1, 2, 6, and 9-11, Hamalainen discloses a telecommunication system suitable for transmitting real-time data (speech) and non-real time packet data, comprising:

a first (a mobile communication system terminal, FIG. 1) and a second communication station (a MSC in FIG. 8a or a BSC in FIG. 8b);

a dual mode channel for communication of both the real time and the non-real time data from the first to the second station, wherein the first station comprises a first transceiver which is operable to transmit both the real-time and the non-real-time data, the second station comprises a second transceiver which is operable to receive the real-time and/or the non-real-time data (col. 3, lines 29-67), the first station further comprises a controller (10) for generating an output data stream (FIG. 3) comprising the real-time data (speech signal), the controller also allocating non-real-time packet data (data signal) to the output data stream when the data rate is of the real-time is less than the full capacity of the dual mode channel, i.e., the terminal has no speech information to transmit (DTX);

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the first station comprises a speech coding system (speech processing circuit 3) which prepares the speech data for transmission from a speech input (2); and

the controller receives timing information from a VAD 4(Voice Activity Detector) indicating the time of interruptions in the speech data stream (col. 3, lines 29-67).

However, Hamalainen differs from the present application in that the controller receives the timing information form the VAD, while the present application receives it form the speech coding system.

Feldman teaches a speech coder (10 in FIG. 2) for a method of transmission of data during absence of speech signal, wherein a VAD is incorporated into the coder.

Those of skill in the art would have been motivated by Feldman to integrate the VAD (4) of Hamalainen into the speech coding system (speech processing circuit 3) to reduce a occupying space by combining the two circuitries.

Therefore, it would have been obvious to one having ordinary skill in the art for the controller of Hamalainen to receive the timing information from the speech processing circuit integrated with the VAD (speech coding system).

Regarding claims 4 and 7, Hamalainen further discloses that the terminal comprises a buffer (9) for storing the non-real-time packet data for transmission.

Regarding claims 12 and 13, Refer to the discussion for the claim 1.

However, Hamalainen does not explicitly teach that the data from a computer (6) is multimedia. It will be apparent to those of skill in the art that the computer could transmit and receive multimedia such as image, video and data.

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Therefore, it would have been obvious to one having ordinary skill in the art to transmit a first type (video) from the computer, second type (speech) form a microphone (1) and third type data (data) from the computer.

Regarding claim 15, Hamalainen discloses a receiving method (FIG. 2) comprising: receiving a combined data from a transmission channel (FIG. 2);

demodulating the data stream by a receiver (13); reading frame header to determine which frames contain packet data and which frames contain speech data (FIG. 3);

reconstituting the speech and packet data; and

providing the speech data to a speech decoder(3) and packet data output signal at distinct output devices. See col. 4, lines 1-10.

Regarding claims 16 and 21, refer to the discussion for the claim 1. Hamalainen further discloses that invention is generally implemented in GSM (TDMA). See col. 6, lines 62-65.

Regarding claim 17, refer to the discussion for the claim 16. According to the GSM standard, information is transmitted in a format of multiple time frames comprising a plurality of time slots (time segments). Therefore, real-time data (speech) is transmitted in the DTX mode and the non-real time data is transmitted when speech data is not available through the time slots, i.e., allocating the real-time data and non-real time packet data in variable proportions to multiple time segments within a time frame as recited in the claim

7. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hamalainen et al (U.S. Patent No. 6,477,176) and Feldman (U.S. Patent No. 6,393,000) as applied to claim 1 above, and further in view of Gudmundson (U.S. Patent No. 5,341,397).

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Regarding claim 14, refer to the discussion for the claim 1.

However, Hamalainen discloses that the invention is generally implemented in GSM (TDMA) and thus, does not explicitly teach that the system could be applicable on a CDMA transmission method. Gudmundson discloses a DTX on a CDMA transmission system.

Those of skill in the art would have been motivated to apply a CDMA protocol using a single spreading code to each mobile for the DTX of Hamalainen to take advantage of using the CDMA such as increasing the system capacity and reducing interference. Therefore, it would have been obvious to one having ordinary skill in the art to apply a CDMA protocol to the DTX of Hamalainen.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Soon-Dong Hyun whose telephone number is (703) 305-4550. The examiner can normally be reached on Monday-Friday from 8:30 A.M. to 5:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen, can be reached on (703) 308-5340.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

9. Any response to this action should be mailed to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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Or faxed to: 703-872-9306 for formal communications intended for entry with a label of "OFFICIAL" and for informal or draft communications with a label of "PROPOSED" or "DRAFT" (attn: Art Unit 2663, Soon-Dong Hyun).

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S. Hyun

05/13/2004

Chan T. Nfugue

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